| | Application No. | Applicant(s) |
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| **Notice of Allowability** | 10/667,562 | DIMAMBRO, FRANCESCO R. |
| | Examiner | Art Unit | |
| | LAWRENCE J. BURROWES | 2619 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--*

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *12 October 2007*.

2. ☒ The allowed claim(s) is/are *1-7, 11-14, 18, 22, 27-29 and 31 (renumbered 1-17)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All    b) ☐ Some*    c) ☐ None  of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
    Paper No./Mail Date _____ .

    **Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ .

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

## *Allowable Subject Matter*

1.      Claims 1-7, 11-14, 18, 22, 27-29 and 31 allowed.

2.      For claim 6, the prior art fails to teach a combination of receiving a header buffer comprising a header for each of N packets, wherein N>1; receiving a data buffer comprising a payload for each of said N packets; in a single descriptor configured to be read by the communication apparatus, storing: a base address of said header buffer; a base address of said data buffer; a checksum start offset indicating where to compute a checksum on each of said N packets; a checksum stuff offset indicating where to store the checksum in each of said N packets; and for each of said N packets: a length of the payload for said packet; a sample of the payload for said packet; and a length of the header for said packet.

3.      For claims 7 and 11-13 , the prior art fails to teach the combination wherein configuring the single descriptor comprises including in the single descriptor: a base address of said header buffer; a base address of said data buffer; for each packet in the multiple packets: a length of a header of the packet; and a length of a payload of the packet; a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be initiated; and a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be stored; configuring a second descriptor to reference said single descriptor, wherein said second descriptor is a traditional descriptor configured to describe a single passing said single descriptor and the second descriptor to the communication

apparatus; and at the communication apparatus, reading the second descriptor to access said single descriptor, and using said single descriptor to transmit the multiple packets.

4.      For claim 14, the prior art fails to teach a combination of a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be initiated; a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be stored.

5.      For claim 18, the prior art fails to teach the combination wherein said single descriptor comprises: a base address of a header buffer storing headers for the multiple packets; a base address of a data buffer storing payloads for the multiple packets; for each packet in the multiple packets: a length of a header of the packet; and a length of a payload of the packet; a first indicator configured to indicate whether the headers are stored contiguously in said header buffer; and a second indicator configured to indicate whether the payloads are stored contiguously in said data buffer; a retrieval module configured to retrieve the multiple packets, wherein said retrieval module comprises: a header retriever configured to retrieve headers for the multiple packets; and a payload retriever configured to retrieve payloads for the multiple packets.

6.      For claim 22, the prior art fails to teach a combination of a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be initiated; a checksum start value configured to indicate where, in each of the multiple packets, a checksum computation is to be stored; and a type of checksum; storing in the first data structure headers for the packets and payloads for a subset of

the packets; configuring a first descriptor to identify the first data structure; configuring

said first descriptor to identify a location of the headers and a location of the payloads

within the first data structure; storing in a second data structure payloads for a subset of

the packets; configuring a second descriptor to identify a location of the payloads within

the second data structure.

7.      For clam 27-29 and 31 , the prior art fails to teach a combination of a checksum

start value configured to indicate where, in each of the multiple packets, a checksum

computation is to be initiated; and a checksum start value configured to indicate where,

in each of the multiple packets, a checksum computation is to be stored.

## EXAMINER'S AMENDMENT

8.      An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Anthony Jones on 13 November 2007.

Claim 16 has been cancelled.


Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LAWRENCE J. BURROWES whose telephone number

is (571) 270-1419. The examiner can normally be reached on Monday - Thursday 5:30am - 2pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan D. Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LJB

EDAN . ORGAD
SUPERVISORY PATENT EXAMINER